

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number  
**WO 2005/094905 A1**

(51) International Patent Classification<sup>7</sup>: **A61L 2/07**,  
2/20, B65B 55/04, B67C 3/26

(21) International Application Number:  
PCT/IB2005/000834

(22) International Filing Date: 31 March 2005 (31.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04425229.4 31 March 2004 (31.03.2004) EP

(71) Applicant (for all designated States except US): I.M.A.  
INDUSTRIA MACCHINE AUTOMATICHE S.p.A.  
[IT/IT]; Via Emilia 428-442, I-40064 Ozzano Emilia (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BROMBIN, Tiziano  
[IT/IT]; Via Piave 1/B, I-45030 S. Maria Maddalena (IT).

(74) Agent: DALL'OLIO, Giancarlo; Invention S.a.s., Via  
delle Armi 1, I-40137 Bologna (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

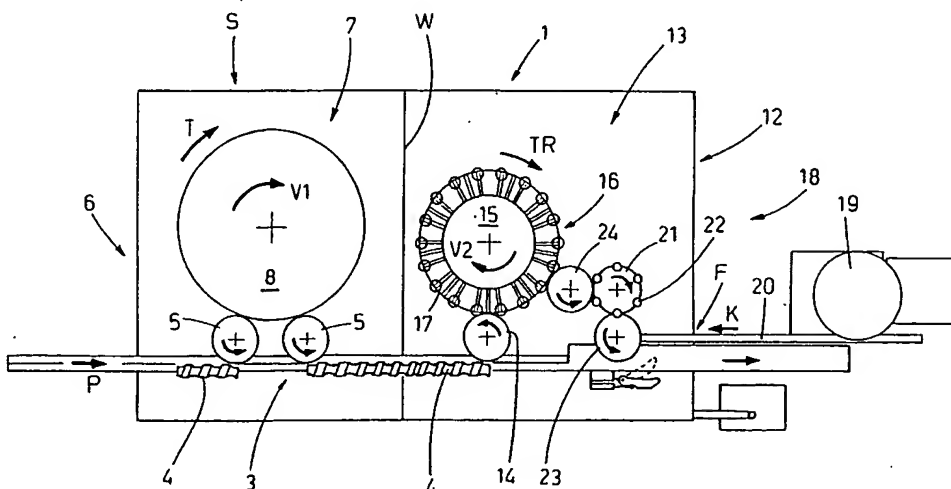
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: A METHOD AND APPARATUS FOR STERILIZING CONTAINERS OF PLASTIC MATERIAL AND FOR FILLING THEM WITH LIQUID SUBSTANCES



(57) Abstract: According to method for sterilizing containers (2) of plastic material and for filling the containers with liquid sub-  
stances, containers (2) are moved in succession along a feeding path (P), so as to enter a a covering structure (S) containing a  
one-block apparatus for sterilizing and filling and defining a closed aseptic environment. The containers (2) are sterilized in a first  
portion (6) of the apparatus (1), situated along a first section (T) of the path (P), then weighted filled with a liquid substance and  
subsequently closed with presterilized plugs/caps, in a second portion (12) of the apparatus (1), situated along a second section (TR)  
of the path (P), after the first section (T).